# **Aviation Week**

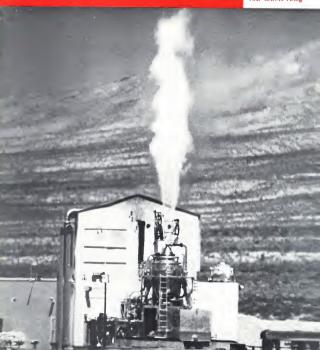
Including Space Technology

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June 6, 1960

USAF Planning Environmental

Space Chamber





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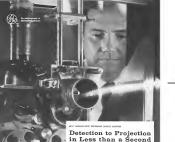
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# **Aviation Week** ... Space Technology

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# EDITORIAL

## Military vs. Civil Space Requirements

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## U-2 Data Aided U.S. Military Planning Gates says Defense got valuable Soviet information,

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ANATIGN WEEK, June 6, 1960

# Soviets Boast of Impregnable Defenses

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Rocket Engine Award Given to Rocketdyne



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# Defense Opposes Bill to Tighten Incentive Contracting Practices

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AVEADON WEEK, June 6, 1990





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# AIR TRANSPORT

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## Flight Recorder Competition Grows As ATA Asks Deadline Extension

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# Board Denies Permit

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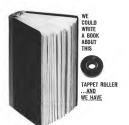
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AVATION WEEK, June 4, 1988

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### SHORTLINES

ANWEIGH WEEK, June 6, 7890



# New space-scanning radio telescope equipped with Sturoflex Coaxial Cable

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# SPACE TECHNOLOGY



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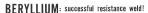
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# AERONAUTICAL ENGINEERING

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# Helicopters Demonstrate Assault Tactics

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First Photo Shows Gloster Javelin's In-flight Refueling Boom Greater Bendus measured with an Bubb schooling probe in shores for first trans. Nata vertex remember whitehe wit of business when on catte parties of every. Giveler is conducting a major sendification progress of Mic VIII localities (AW May 21 or 44)

ANIATION WEEK, June 4, 1960



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AVATION WEEK, June 6, 1940

NEW DEPARTURE MINISTURE E INSTRUMENT BALL BEARINGS

## Normalizing Allov Steels

There are several forms of heattreatment commonly employed in the precessing of alloy stools Earch in its own way smollfies the succhanical properties and structures of steel, and each is chosen with a definite objective in mind The size are usual forms of treatment are normalizing, annealing, sphoroidizters, and the common structure of the commissing of the common structure of the commissing of the common structure.

and stress-relieving

In this particular discussion, let us consider briefly the purposes and effects of normalising

mentally 100 deg F above the upper treasformation range, then cooled in still or againsted six. The basis purpose is to refine the prior structure produced by variations in finshing temperatures encountered in rolling or foreign. The structure resulting from gornalizing, being more uniform, will help create improved ingentalizing purports when

There are times whose large steel parts (heavy Seegangs, for example) contact be liquid-injentised beautiful of this size. In cases of this nature, the heat-treatment must conest of single or multiple naturalizing following

te or multiple normalising toled by tempering low-rarbon alloy steels to promote matchinalistic (In high-temperature meraalizing, seed is heated to more than 109 deg: F above the upper transformation range.) At times it is possible to machine a steel in the sir-cooled condition, the governing factor being the islioy control thou-ever, the highly alloyed analyses may recover meta-live or tempering

It is essential, when normalizing is employed, that free circulation of still or agritted air be povided. When nic-cooling of individual bars or forgings as not practicable, the

If you would care to know more about normalizing, or any other place of heat treating, you are invited to consult with Bethlehem metallurgies They are always glad

And remember that Bethiehen makes the full range of AISI standard alloy stoch, as well as special-

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# Ceramic Gyroscope Uses Gas Bearings

By Pinhp J. Klass

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ANATION WELL June 6, 1940



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